

~~CLAIMS:~~

1. An image display apparatus including an input unit, a computer body and a display unit, wherein said computer body comprises addition means for preparing a control signal S_c on the basis of an control instruction inputted by said input unit for adjusting a display picture of said display unit and for adding said control signal to a video signal R, G or B or a synchronizing signal H_s or V_s produced separately for driving said display unit to be produced to said display unit, and said display unit comprises separation means for separating said added control signal from said video signal or said synchronizing signal produced by said addition means and display control means for producing an adjustment signal on the basis of said control signal produced from said separation means to adjust display drive means in said display unit.
2. An image display apparatus according to Claim 1, wherein said computer body comprises a CPU and signal generation means for producing said video signal and producing a horizontal synchronizing signal H_s and a vertical synchronizing signal V_s as said synchronizing signal, and said addition means comprises a hold circuit for holding said control instruction inputted by said input unit and supplied through said CPU, a shift register circuit for taking in contents of said hold circuit with said vertical synchronizing signal V_s as a reference, a counter circuit for counting said hori-

zontal synchronizing signal H_s by a predetermined value
with said vertical synchronizing signal V_s as a reference,
a gate circuit for supplying said horizontal
15 synchronizing signal as a reading clock of said shift
register circuit until said counter circuit counts by
the predetermined value with said vertical synchronizing
signal V_s as the reference, a level conversion circuit
for converting a level of a signal read out from said
20 shift register circuit into a level of said video signal
produced by said signal generation means, and a selec-
tion circuit for selecting an output of said level
conversion circuit during an output period of said gate
circuit and selecting said video signal during other
25 period.

3. An image display apparatus according to Claim 1, wherein said display unit comprises a video circuit and a deflection circuit, and said control means comprises a plurality of digital-to-analog conversion circuits, whereby a predetermined digital-to-analog conversion circuit is selected from said plurality of digital-to-analog conversion circuits on the basis of address information included in said control signal S_c produced by said separation means and control data included in said control signal S_c is converted into an adjustment voltage or current as said adjustment signal by said digital-to-analog conversion circuit to adjust said video circuit and said deflection circuit.
- 5 10 15 20 25
4. An image display apparatus according to Claim

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1, wherein said display unit comprises a video circuit
and a deflection circuit, and said control means com-
prises a microcomputer, a nonvolatile memory and a
5 plurality of digital-to-analog conversion circuits,
wherein when a power supply of said display unit is
turned on, control information stored in said non-
volatile memory is read out by said microcomputer to be
supplied to a predetermined circuit of said plurality of
10 digital-to-analog conversion circuits so that said video
circuit and said deflection circuit are adjusted by an
output of said digital-to-analog circuit, and when said
control signal Sc is produced by said separation means,
said control signal is processed by said microcomputer
15 to be supplied to a predetermined circuit of said
plurality of digital-to-analog conversion circuits so
that said video circuit and said deflection circuit are
adjusted by an output of said digital-to-analog conver-
sion circuit and said control signal is written in said
20 nonvolatile memory as said information.

5. An image display apparatus according to Claim
1, wherein said addition means adds said prepared con-
trol signal Sc to said separately produced video signal
R, G or B during a vertical blanking period.

6. An image display apparatus including an input
unit, a computer body and a display unit, wherein said
computer body comprises preparation means for preparing
a control signal Sc on the basis of an control instruc-
5 tion inputted by said input unit for adjusting a display

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picture of said display unit to produce said control signal to said display unit, and said display unit comprises control means for producing an adjustment signal on the basis of said control signal produced by said preparation means to adjust display drive means in said display unit.

7. An image display unit according to Claim 6, wherein delivery of said control signal Sc from said computer body and said preparation means to said control means in said display unit is made by means of a general-purpose interface, said preparation means comprising signal input means, said control means comprising signal output means, information relative to operation situation of said display unit capable of being transmitted through said interface from said display unit to said computer body.

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8. An image display apparatus including an input unit, a computer body and a display unit, wherein said computer body comprises display processing means for preparing a control signal Sc on the basis of an control instruction inputted by said input unit for adjusting a display picture of said display unit to produce said control signal to said display unit together with image data produced separately for displaying an image in said display unit, and said display unit comprises control means for preparing video signals R, G and B and synchronizing signals Hs and Vs on the basis of said image data produced by said display processing means and for

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15 producing an adjustment signal on the basis of said control signal produced by said display processing means to adjust display drive means in said display unit.

9. An image display apparatus according to Claim 8, wherein said control means controls said display drive means in said display unit to set said display unit to be a non-display state or a state near said non-display state when said image data produced by said display processing means is not updated during a pre-determined time.

10. An image display apparatus including an input unit, a computer body and a display unit, wherein said computer body comprises modulation means for preparing a control signal Sc on the basis of an control instruction inputted by said input unit for adjusting a display picture of said display unit and modulating said control signal to add said control signal to an AC power supply PL, and said display unit comprises demodulation means for separating said added control signal Sc from said AC power supply PL to demodulate said control signal and control means for producing an adjustment signal on the basis of said control signal Sc produced by said demodulation means to adjust display drive means, in said display unit.

11. An image display apparatus including a second input unit, a computer body and a display unit, wherein said computer body and said display unit are supplied with a part or all of instructions inputted by said

5 second input unit, and said display unit comprises preparation means for preparing a control signal Sc on the basis of said control instruction to produce it when an instruction inputted by said input unit is a control instruction for adjusting a display picture of said
10 display unit and control means for producing an adjustment signal on the basis of said control signal Sc produced by said preparation means to adjust display drive means in said display unit.

12. An image display apparatus according to Claim 11, wherein said second input unit includes an exclusive input portion for inputting said control signal exclusively, and an instruction inputted by said exclusive
5 input portion is supplied to at least said display unit.

13. An image display apparatus according to Claim 11, wherein transmission of said instruction from said second input unit to said display unit is made by means of infrared rays or radio waves to thereby reduce the number of connection lines between said input unit and
5 said display unit.

14. An image display apparatus according to Claim 1, wherein said input unit includes a keyboard, a mouse and a pen for unit.

15. An image display apparatus according to Claim 11, wherein said input unit includes a keyboard, a mouse and a pen for unit.

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